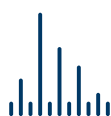


STADI MP

UNIQUE MULTI-PURPOSE POWDER DIFFRACTOMETER OFFERING THREE GEOMETRIES

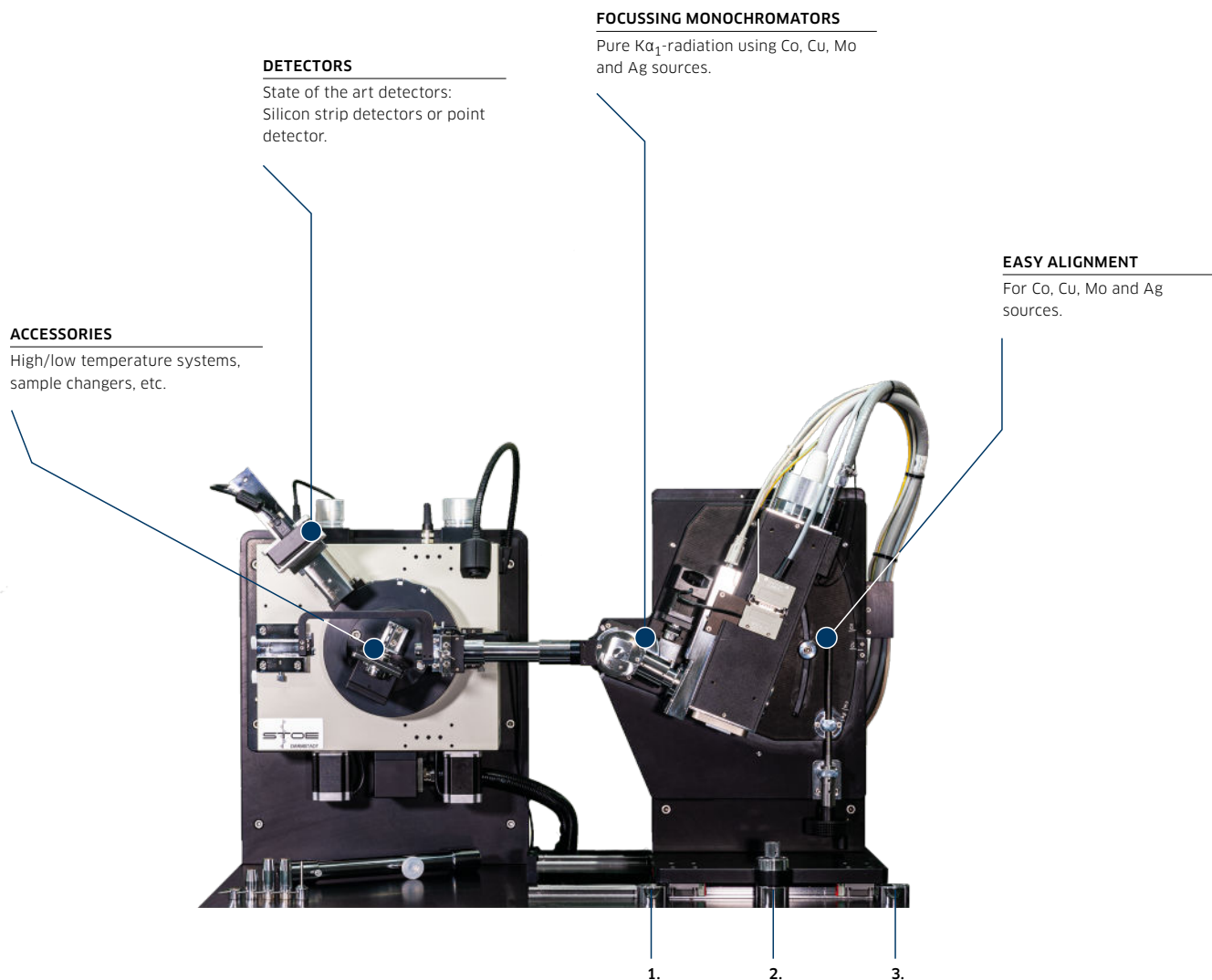


POWDER DIFFRACTOMETRY

- Transmission / Debye-Scherrer, High Flux and Bragg-Brentano modes
- No realignment necessary when moving from one geometry to another
- All geometries running with pure Co, Cu, Mo or Ag $K\alpha_1$ -radiation
- State of the art detectors: Silicon strip detectors or point detector

STADI MP

ONE DIFFRACTOMETER, THREE GEOMETRIES



STADI MP

- Various state of the art detectors
- High and low temperature attachments
- Transmission / Debye-Scherrer, High Flux and Bragg-Brentano mode
- Geometry selection by sliding tube housing
- No realignment after changing geometries
- All geometries running with pure Co, Cu, Mo or Ag $K\alpha_1$ radiation

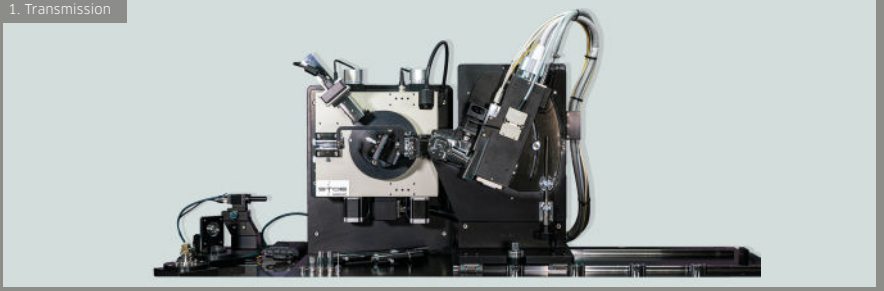
STOE has developed one of the most versatile diffractometer systems in the market, the **STOE STADI MP**. It combines the three most common diffractometer configurations, Transmission geometry, Bragg-Brentano geometry and a set-up for micro-diffraction (High Flux), in one goniometer.

ONE GONIOMETER - THREE GEOMETRIES:

1. Transmission
2. High Flux
3. Bragg-Brentano | Low Resolution

BRAGG-BRENTANO, MICRO-DIFFRACTION AND THE ESTABLISHED TRANSMISSION GEOMETRY INVENTED BY STOE, COMBINED IN ONE INSTRUMENT

1. Transmission



2. High Flux



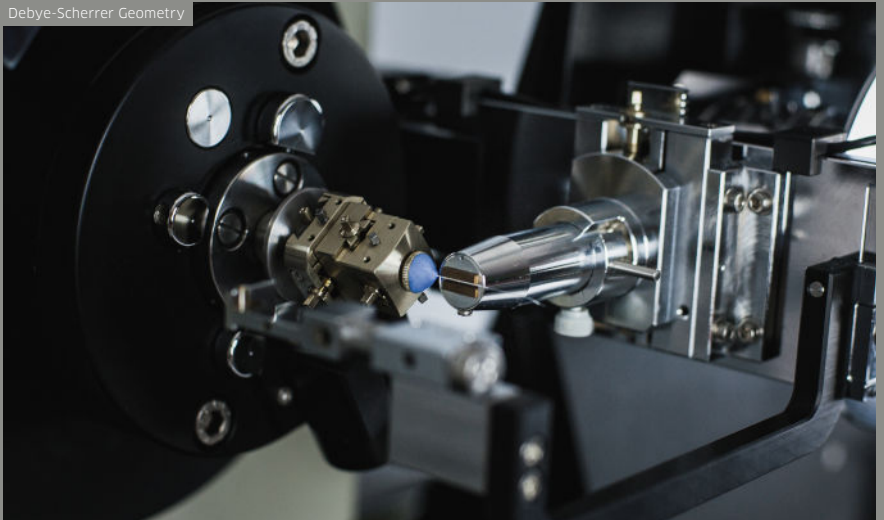
3. Bragg-Brentano



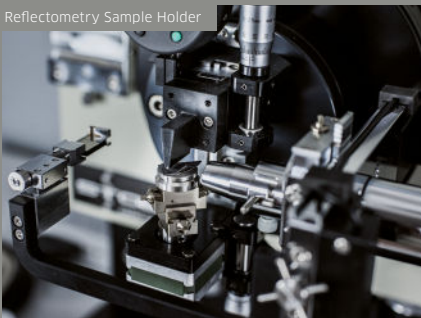
Advantages of Transmission-/ Debye-Scherrer geometry

1. Same sample volume in the beam over the full 2θ scale
2. Reliable intensities with no necessity for further mathematical corrections
3. No line broadening for weak absorbers
4. No height displacement
5. Real micro-sampling possible
6. Lesser effects of preferred orientation

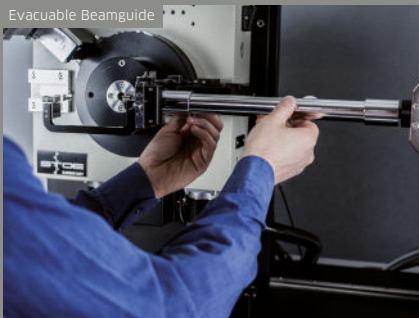
Debye-Scherrer Geometry



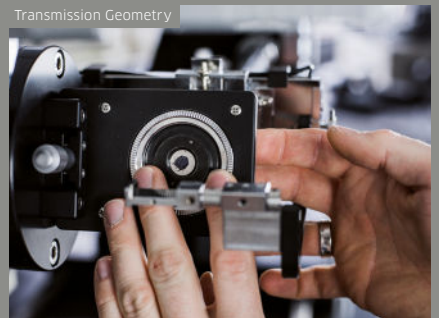
Reflectometry Sample Holder



Evacuatable Beamguide



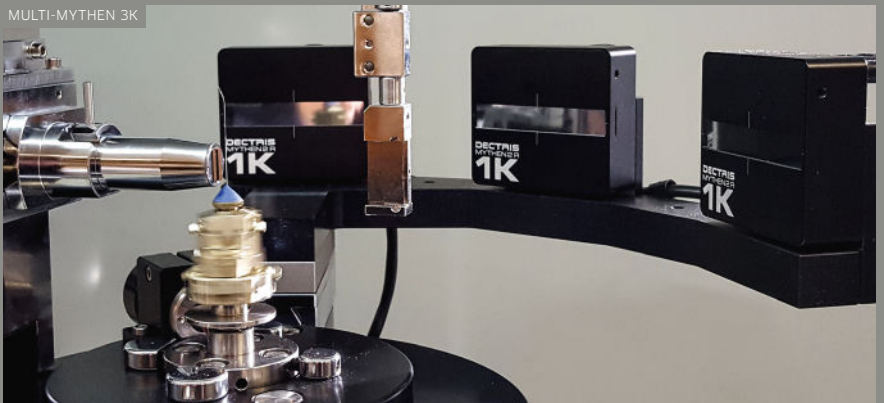
Transmission Geometry



MULTI-MYTHEN 2K/3K IF ONE MYTHEN IS NOT FAST ENOUGH

Ideal for capillary measurements,
all STOE furnaces and the
INSITU HT2 heating and reaction
chamber

MULTI-MYTHEN 3K





SPECIFICATIONS

Dimensions (including system cabinet)	1800x880x2050 mm
Weight (complete system)	870 kg (depending on configuration)
2 θ range	-10° to +140° or better, depending on selected geometry
Goniometer	2 circles, 2 θ/ω
Radius of measuring circle	140mm to 573mm depending on selected geometry and detector
Radius of focusing circle	80mm or 160mm depending on selected geometry
X-ray sources	Sealed Tubes: Co, Cu, Mo, Ag
Software	WinX ^{POW} package
Detectors	<ul style="list-style-type: none"> • Silicon strip detector MYTHEN 1K/2K/3K • Point detectors
Accessories	<ul style="list-style-type: none"> • High and low temperature attachments in Bragg-Brentano or Debye-Scherrer mode • Reaction chamber for reflection samples • Various sample stages • Various sample changers

Specifications without obligation and subject to change without notice.